

WHAT IS CLAIMED IS:

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1. An optical disk apparatus that is adapted to irradiate an optical beam on an optical disk to realize signal recording, said optical disk apparatus comprising:

10 characteristic determining means for replaying a signal recorded on the optical disk after a predetermined time period elapses from the time of the recording of the signal, and determining a characteristic of the optical disk based on the replayed signal; and
15 control means for controlling the signal recording on the optical disk based on the characteristic determined by the characteristic determining means.

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2. The optical disk apparatus as claimed in claim 1, wherein the characteristic determining means is arranged to replay the signal recorded on the optical disk after a time period required for the characteristic of the 25 optical disk to stabilize elapses.

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3. The optical disk apparatus as claimed in claim 1, wherein the characteristic determining means is arranged to replay the signal that is recorded earlier in time by the predetermined time period.

5 4. The optical disk apparatus as claimed in
claim 1, wherein the control means controls a power of the
optical beam irradiated on the optical disk based on the
characteristic determined by the characteristic
determining means.

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15 5. The optical disk apparatus as claimed in
claim 1, wherein the control means controls a recording
speed for the signal recording based on the characteristic
determined by the characteristic determining means.

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25 6. A characteristic determining method for an
optical disk apparatus that is adapted to irradiate an
optical beam on an optical disk to realize signal
recording, said method comprising:

 replaying a signal recorded on the optical disk
after a predetermined time period elapses from the time of
the recording of the signal; and

30 determining a characteristic of the optical disk
based on the replayed signal.

7. The characteristic determining method as
claimed in claim 6, wherein the signal is replayed after a
time period required for the characteristic of the optical
5 disk to stabilize elapses.

10 8. The characteristic determining method as
claimed in claim 6, wherein the signal to be replayed is
recorded earlier in time by the predetermined time period.

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9. An optical disk apparatus that is adapted to
irradiate an optical beam on an optical disk to realize
signal recording, said optical disk apparatus comprising:

20 a microcomputer adapted to record a signal on
the optical disk, wait a predetermined time period to
elapse from the time of the recording of the signal to
allow a characteristic of the signal to stabilize, and
replay the signal and determine the characteristic of the
25 signal based on the replayed signal.

30 10. A method of determining a characteristic of
a recording signal on an optical disk, comprising:
recording a signal on the optical disk;
waiting a predetermined time period to elapse

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from the time of the recording of the signal to allow a characteristic of the signal to stabilize; and

replaying the signal and determining the characteristic of the signal based on the replayed signal.

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11. A method of controlling recording of a
10 signal on an optical disk, comprising:

performing a recording operation on the optical disk;

stopping the recording operation, and allowing a predetermined time period to elapse for a characteristic
15 of a signal recorded during the recording operation to stabilize;

replaying the signal and determining the characteristic of the signal based on the replayed signal;
and

20 restarting recording based on the characteristic of the signal.

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12. The method as claimed in claim 11, wherein if the characteristic of the signal is within a predetermined control range but outside a permissible range for a current recording power, then further
30 including the step of changing the recording power to thereby reduce the characteristic of the signal before restarting the recording.

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13. The method as claimed in claim 11, wherein
5 if the characteristic of the signal is outside a
predetermined control range, then further including the
step of decreasing a recording speed and changing the
recording power according to the decreased recording speed.

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14. The method as claimed in claim 11, wherein
the recording operation includes recording a plurality of
15 signals, and the step of replaying the signal includes
replaying the latest signal of the recording operation.

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15. The method as claimed in claim 11, wherein
the recording operation includes recording a plurality of
signals, and the predetermined time period is measured
from the latest signal of the recording operation.